



PATENT  
Attorney Docket No. A-67032-2  
Attorney File No.: 463037-00022

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

*In re* application of

BAMDAD *et al.*

Serial No. 10/016,416

Filed: December 10, 2001

For: *Detection of Target Analytes  
Using Particles and Electrodes*

Art Unit: 1634

Examiner: LU, Frank Wei Min

**"EXPRESS MAIL" LABEL NO.:  
EV 554099086 US**

**INFORMATION DISCLOSURE STATEMENT  
AND  
STATEMENT OF RELATEDNESS**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. In accordance with 1287 Off. Gaz. Pat. Office 163, 10/19/2004, no copies of U.S. patents and U.S. published applications are enclosed. Copies of all other references are enclosed.

Further, this application is a continuation of the following related U.S. Application – Serial No. 09/428,155, filed October 27, 1999 (pending). Applicant wishes to draw the attention of the U.S. Patent and Trademark Office to the references cited on

Serial No.: 10/016,416  
Filed: December 10, 2001

the accompanying substitute for form PTO-1449 marked with an asterisk (\*). Since these references were previously disclosed in the above-mentioned application, in accordance with 37 C.F.R. § 1.98(d), no copies of these references are enclosed.

Further, in satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and as required by M.P.E.P. § 2001.06(b), Applicant notes that the present application is related to the following pending patent applications:

1. U.S.S.N. 08/873,978, filed June 12, 1997; U.S.S.N. 09/557,577, filed April 21, 2000;
2. U.S.S.N. 08/873,597, filed August 14, 1997;
3. U.S.S.N. 09/135,183, filed August 17, 1998;
4. U.S.S.N. 09/452,277, filed December 3, 1999;
5. U.S.S.N. 09/440,371, filed November 12, 1999; U.S.S.N. 09/712,792, filed November 13, 2000;
6. U.S.S.N. 09/295,691, filed April 21, 1999; U.S.S.N. 11/043,515, filed January 25, 2005;
7. 10/746,903, filed December 23, 2003;
8. U.S.S.N. 09/245,105, filed January 27, 1999;
9. U.S.S.N. 09/626,096, filed July 26, 2000;
10. U.S.S.N. 09/760,384, filed January 11, 2001; U.S.S.N. 09/993,342, filed November 5, 2001; and
11. U.S.S.N. 10/803,166, filed March 16, 2004.

Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission

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Filed: December 10, 2001

that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

Pursuant to 37 C.F.R. §1.97(c), enclosed is a check in the amount of \$180.00 as set forth in 37 C.F.R. §1.17(p). While no fee is believed to be due, if this belief is in error, the Commissioner is authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2319 (File No.: 463037-00022; Docket No.: A-67032-2).

Please direct further questions in connection with this Application to the undersigned at (415) 781-1989.

Respectfully submitted,  
DORSEY & WHITNEY LLP

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*Filed Under 37 C.F.R. § 1.34*

Attachments: Form SB/08/A-B, substitute for Form PTO-1449  
60 cited references  
Check for \$180.00

MAY 02 2005

Substitute PTO/SB/08A (08-03)

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO  
(Modified)**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary).

**Complete if Known**

Application Number	10/016,416
Filing Date	December 10, 2001
First Named Inventor	BAMDAD, Cynthia C.
Art Unit	1634
Examiner Name	LU, Frank Wei Min

Sheet	1	of	7	Attorney Docket Number	A-67032-2 (463037-00022)
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**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A1 *		4,707,440	11-17-1987	Stavrianopoulos	
A2 *		4,755,458	07-05-1988	Rabbani et al.	
A3 *		4,840,893	06-20-1989	Hill et al.	
A4 *		4,868,103	09-19-1989	Stavrianopoulos et al.	
A5 *		4,894,325	01-16-1990	Englehardt et al.	
A6 *		4,994,373	02-19-1991	Stavrianopoulos	
A7		5,108,573	04-28-1992	Rubinstein et al.	
A8		5,242,828	09-07-1993	Bergstrom et al.	
A9 *		5,278,043	01-11-1994	Bannwarth et al.	
A10		5,294,369	03-15-1994	Shigekawa et al.	
A11 *		5,391,272	02-21-1995	O'Daly et al.	
A12		5,443,701	08-22-1995	Willner et al.	
A13 *		5,472,881	12-05-1995	Beebe et al.	
A14		5,532,128	07-02-1996	Eggers et al.	
A15 *		5,565,552	10-15-1996	Magda et al.	
A16 *		5,591,578	01-07-1997	Meade et al.	
A17		5,605,662	02-25-1997	Heller et al.	
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A19		5,632,957	05-27-1997	Heller et al.	
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A28		6,013,170	01-11-2001	Meade	
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A32		6,087,100	07-11-2000	Meade et al.	

Examiner Signature		Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English Language Translation is attached.

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Substitute PTO/SB/08A (08-03)  
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449 PTO (Modified) <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
Sheet	2	of	7	Application Number	10/016,416
				Filing Date	December 10, 2001
				First Named Inventor	BAMDAD, Cynthia C.
				Art Unit	1634
				Examiner Name	LU, Frank Wei Min
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	A33	6,090,933	07-18-2000	Kayyem et al.	
	A34	6,096,273	08-01-2000	Kayyem et al.	
	A35	6,177,250	01-23-2001	Meade et al.	
	A36	6,180,352 B1	01-30-2001	Meade et al.	
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	A38	6,221,583 B1	04-24-2001	Kayyem et al.	
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	A63	2003/0150723 A1	08-14-2003	Kayyem et al.	
	A64	2003/0170677 A1	09-11-2003	Meade et al.	

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<p style="text-align: center;">Substitute for form 1449A/P (Modified)</p> <p style="text-align: center;"><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p style="text-align: center;">(use as many sheets as necessary)</p>				<p style="text-align: center;"><b>Complete if Known</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td style="width: 50%;">10/016,416</td> </tr> <tr> <td>Filing Date</td> <td>December 10, 2001</td> </tr> <tr> <td>First Named Inventor</td> <td>BAMDAD, Cynthia C.</td> </tr> <tr> <td>Art Unit</td> <td>1634</td> </tr> <tr> <td>Examiner Name</td> <td>LU, Frank Wei Min</td> </tr> </table>		Application Number	10/016,416	Filing Date	December 10, 2001	First Named Inventor	BAMDAD, Cynthia C.	Art Unit	1634	Examiner Name	LU, Frank Wei Min
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Sheet	3	of	7	Attorney Docket Number											
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Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
A65		2003/0232354 A1	12-18-2003	Yu et al.	
A66		2004/0053290 A1	03-18-2004	Terbrueggen et al.	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
B1		EP 0 142 301 A1	05-22-1985	Serono Diagnostics Limited		
B2 *		EP 0 229 943 A1	07-29-1987	Molecular Biosystems, Inc.		
B3		EP 0 238 166 A1	09-23-1987	Mitsubishi Electric Corp.		
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B5 *		EP 0 599 337 A1	06-01-1994	Canon K.K.		
B6		EP 0 668 502 A2	08-23-1995	Yissum Research Development		
B7 *		WO 86/05815 A1	10-09-1986	Genetics International, Inc.		
B8		WO 93/16383 A1	08-19-1993	Scient Generics Ltd.		
B9 *		WO 93/22678 A2/A3	11-11-1993	Massachusetts Institute of Technology		
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B18 *		WO 98/20162 A2/A3	05-14-1998	Clinical Micro Sensors, Inc.		

Examiner Signature		Date Considered
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Substitute for form 1449A/PTO  
(Modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/016,416
Filing Date	December 10, 2001
First Named Inventor	BAMDAD, Cynthia C.
Art Unit	1634
Examiner Name	LU, Frank Wei Min

Sheet	4	of	7	Attorney Docket Number	A-67032-2 (463037-00022)
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	B19	WO 98/31839 A2/A3	07-23-1998	Presidents & Fellows of Harvard College		
	B20 *	WO 98/35232 A2/A3	08-13-1998	University of North Carolina at Chapel Hill		
	B21	WO 98/57159 A1	12-17-1998	Clinical Micro Sensors, Inc.		
	B22	WO 99/37819 A2/A3	07-29-1999	Clinical Micro Sensors, Inc.		
	B23	WO 99/57319 A1	11-11-1999	Clinical Micro Sensors, Inc.		
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	B34	WO 03/085082 A2	10-16-2003	Clinical Micro Sensors, Inc.		

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	C1 *	AIZAWA, M., et al., "Integrated molecular systems for biosensors," <i>Sens. Actuators B Chem.</i> 24(1&3):1-5 (Mar. 1995).	
	C2 *	ALLEMAN, K.S., et al., "Electrochemical rectification at a monolayer-modified electrode," <i>J. Phys. Chem.</i> 100:17050-17058 (Oct. 1996).	
	C3	BAIN, C., et al., "Formation of monolayers by the coadsorption of thiols on gold: variation in the length of the alkyl chain," <i>J. Am. Chem. Soc.</i> 111(18):7164-7175 (Aug. 1989).	
	C4	BEATTIE, K., et al., "Advances in Genosensor Research," <i>Clin. Chem.</i> 41(5):700-706 (1995).	
	C5	BEATTIE, K., et al., "Genosensor Technology," <i>Clin. Chem.</i> 39(4):719-722 (1993).	
	C6 *	BIDAN, G., "Electroconducting conjugated polymers: new sensitive matrices to build up chemical or electrochemical sensors. A review," <i>Sens. Actuators B</i> 6:45-56 (1992).	

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Substitute for form 1449A/PTO  
(Modified)

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	5	of	7	Attorney Docket Number	A-67032-2 (463037-00022)
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### NON PATENT LITERATURE DOCUMENTS

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Sheet	6	of	7	Attorney Docket Number	A-67032-2 (463037-00022)
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## Complete if Known

Application Number	10/016,416
Filing Date	December 10, 2001
First Named Inventor	BAMDAD, Cynthia C.
Art Unit	1634
Examiner Name	LU, Frank Wei Min

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